

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method in a data processing system for presenting coverage data relating to data access occurring during execution of code, the method comprising:

obtaining the coverage data containing data access indicators associated with memory locations;
identifying the data access indicators that have been set by a processor in the data processing system in response to access of the memory locations during execution of the code by the processor to form set data access indicators, wherein each set ~~data instruction~~ access indicator is associated with a portion of the memory locations allocated for the code, and wherein the data access indicators are located in one of a shadow memory or a page table; [[and]]

identifying unset data access indicators that have remained unset during execution of the code by the processor; and

generating a presentation for coverage data in response to an event for identifying memory locations that have been accessed and for identifying memory locations that have not been accessed during execution of the code, wherein the set data access indicators and the unset data access indicators are identified in the presentation by one of using a first color to identify the set data access indicators and using a second color to identify the unset data access indicators, and using a graphical indicator to identify the set data access indicators and the unset data access indicators.

2. (Canceled)

3. (Currently amended) The method of claim [[2]] 1, wherein the event is completion of the execution of the code, ~~presentation is generated after the code has completed execution~~ and further comprising:

receiving new test parameters after generating the presentation; and
in response to receiving the new test parameters, repeating the obtaining step, the identifying steps [[step]], and the generating step.

4-7. (Canceled)

8. (Currently amended) The method of claim [[7]] 1, wherein the event is at least one of a completion of the execution of the code, expiration of a time, and the execution of a selected type of instruction in the code.
9. (Original) The method of claim 1, wherein the portion of the memory locations is a single memory location in the code and wherein every memory location in the memory locations is associated with a different data access indicator.
10. (Original) The method of claim 1, wherein the portion of the memory locations includes at least one of a memory area or a single memory location.
11. (Currently amended) A data processing system for presenting coverage data relating to data access occurring during execution of code, the data processing system comprising:
- obtaining means for obtaining the coverage data containing data access indicators associated with memory locations;
 - first identifying means for identifying the data access indicators that have been set by a processor in the data processing system in response to access of the memory locations during execution of the code by the processor to form set data access indicators, wherein each set ~~instruction~~ data access indicator is associated with a portion of the memory locations allocated for the code, and wherein the data access indicators are located in one of a shadow memory or a page table; [[and]]
 - second identifying means for identifying unset data access indicators that have remained unset during execution of the code by the processor; and
 - generating means for generating a presentation for coverage data in response to an event for identifying memory locations that have been accessed and for identifying memory locations that have not been accessed during execution of the code, wherein the set data access indicators and the unset data access indicators are identified in the presentation by one of using a first color to identify the set data access indicators and using a second color to identify the unset data access indicators, and using a graphical indicator to identify the set data access indicators and the unset data access indicators.
12. (Canceled)
13. (Currently amended) The data processing system of claim [[12]] 11, wherein the event is completion of the execution of the code, presentation is generated after the code has completed execution and further comprising:

receiving means for receiving new test parameters after generating the presentation; and
repeating means, responsive to receiving the new test parameters, for repeating the obtaining means, the first and second identifying means, and the generating means.

14-17. (Canceled)

18. (Currently amended) The data processing system of claim ~~[[17]]~~ 11, wherein the event is at least one of a completion of the execution of the code, expiration of a time, and the execution of a selected type of instruction in the code.

19. (Original) The data processing system of claim 11, wherein the portion of the memory locations is a single memory location in the code and wherein every memory location in the memory locations is associated with a different data access indicator.

20. (Original) The data processing system of claim 11, wherein the portion of the memory locations includes at least one of a memory area or a single memory location.

21. (Currently amended) A computer program product in a recordable-type computer readable medium for presenting coverage data relating to data access occurring during execution of code, the computer program product comprising:

first instructions for obtaining the coverage data containing data access indicators associated with memory locations;

second instructions for identifying the data access indicators that have been set by a processor in the data processing system in response to access of the memory locations during execution of the code by the processor to form set data access indicators, wherein each set ~~instruction data~~ access indicator is associated with a portion of the memory locations allocated for the code, and wherein the data access indicators are located in one of a shadow memory or a page table; ~~[[and]]~~

third instructions for identifying unset data access indicators that have remained unset during execution of the code by the processor; and

~~[[third]]~~ fourth instructions for generating a presentation for coverage data in response to an event for identifying memory locations that have been accessed and for identifying memory locations that have not been accessed during execution of the code, wherein the set data access indicators and the unset data access indicators are identified in the presentation by one of using a first color to identify the set data

access indicators and using a second color to identify the unset data access indicators, and using a graphical indicator to identify the set data access indicators and the unset data access indicators.

22. (Canceled)

23. (Currently amended) The computer program product of claim ~~[[22]]~~ 21, wherein the event is completion of the execution of the code, ~~presentation is generated after the code has completed execution~~ and further comprising:

fifth instructions for receiving new test parameters after generating the presentation; and
sixth instructions, responsive to receiving the new test parameters, for repeating the first instructions, the second instructions, ~~[[and]]~~ the third instructions and the fourth instructions.

24-26. (Canceled)